

(19) World Intellectual Property Organization International Bureau



03 DEC 2004

(43) International Publication Date 11 December 2003 (11.12.2003)

PCT

(10) International Publication Number WO 03/103204 A1

(51) International Patent Classification⁷: H04J 14/02, H04B 10/18, G02B 6/293

(21) International Application Number: PCT/AU03/00408

(22) International Filing Date: 4 April 2003 (04.04.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

PS 2771 3 June 2002 (03.06.2002) AU

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:

US 10/028745 (CIP) Filed on 21 December 2001 (21.12.2001)

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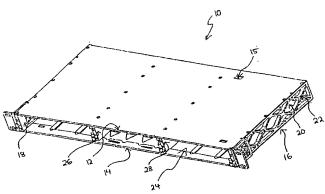
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: WDM MODULE



(57) Abstract: A WDM module comprising a plurality of WDM laser assemblies is disclosed, each laser assembly comprising a laser source, wherein the WDM is arranged, in use, in a manner such that a controlled temperature environment is created around the laser sources of the laser assemblies, the controlled temperature environment being defined by a high and a low reference temperature value and having a temperature range equal to or smaller than an inherent operation temperature range of the laser sources, and in a manner such as to be capable of creating the controlled temperature environment around the laser sources while the WDM module is subjected to an outside temperature ambient having a temperature range larger than the inherent operation temperature range of the laser sources. The present invention also relates to a regenerator node for a WDM network, the node comprising an east network interface unit arranged, in use, to demultiplex an incoming WDM optical signal and convert the incoming WDM optical signal into a plurality of electrical channel signals, and to convert and multiplex a plurality of electrical channel signals into an outgoing WDM optical signal into a plurality of electrical channel signals, and to convert and multiplex a plurality of electrical channel signals into an outgoing WDM optical signal into a plurality of electrical channel signals, and to convert and multiplex a plurality of electrical channel signals into an outgoing WDM optical signal; and a regeneration unit disposed between the east and west interface units for regenerating the electrical channel signals utilising at least 2R regeneration.



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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